

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): An image forming apparatus comprising:

an image data processing unit processing image data, the image data processing unit including a graphics port and a peripheral device interconnection port;

a print engine connected to the peripheral device interconnection port to form a visible image based on the image data received through the peripheral device interconnection port;

a central processing unit connected to the image data processing unit and controlling transfer of the image data; and

a first memory provided on a side of the graphics port with respect to the image data processing unit, the first memory for storing the image data, wherein the central processing unit and the first memory are connected on a side of the graphics port with respect to the image data processing unit; and

wherein the central processing unit stores the image data in the first memory, and transfers the image data stored in the first memory to the print engine through the graphics port, the image data processing unit, and the peripheral device interconnection port.

Claim 2 (Previously Presented): The image forming apparatus as claimed in claim 1, further comprising a second memory connected to the image data processing unit so that the second memory is connected to the first memory via the graphics port, wherein the image data processing unit transfers the image data from the first memory to the second memory through the graphics port so as to transfer the image data from the second memory to the print engine through the peripheral device interconnection port.

Claim 3 (Original): The image forming apparatus as claimed in claim 2, further comprising a compressor connected between the graphics port and the second memory and a decompressor connected to said second memory, wherein the compressor compresses the image data transferred from the first memory to the second memory so as to store the compressed image data in the second memory, and the decompressor decompresses the compressed image data and stores the decompressed image data in the second memory so as to transfer the decompressed image data from the second memory to the print engine through the peripheral device interconnection port.

Claim 4 (Original): The image forming apparatus as claimed in claim 1, further comprising a decompressor connected between the graphics port and the peripheral device interconnection port, wherein the processing unit compresses the image data by using a software and stores the compressed image data in the first memory, and the decompressor decompresses the compressed image data transferred from the first memory to the print engine.

Claim 5 (Original): The image forming apparatus as claimed in claim 2, further comprising a decompressor connected between the second memory and the peripheral device interconnection port, wherein the processing unit compresses the image data by using a software and stores the compressed image data in the first memory, and the decompressor decompresses the compressed image data stored in the second memory and sends the decompressed image data to the print engine through the peripheral device interconnection port.

Claim 6 (Previously Presented): The image forming apparatus as claimed in claim 1, further comprising a decompressor connected to the second memory, wherein the processing unit compresses the image data by using a software and stores the compressed image data in the first memory, and the decompressor decompresses the compressed image data stored in the second memory and stores the decompressed image data in the second memory so that the decompressed image data is transferred from the second memory to the print engine through the peripheral device interconnection port.

Claim 7 (Currently Amended): A method of transferring image data to a print engine through a peripheral device interconnection port of an image data processing unit, the method being performed under a control of a central processing unit connected to the image data processing unit and provided on a side of a graphics port of the image data processing unit, the method comprising:

storing the image data in a first memory provided on the side of the graphics port of the image data processing unit;

transferring the image data from the first memory to the image data processing unit through the graphics port; and

transferring the image data from the image data processing unit to the print engine through the peripheral device interconnection port.

Claim 8 (Previously Presented): The method as claimed in claim 7, further comprising:

transferring the image data from the first memory to a second memory through the graphics port; and

transferring the image data from the second memory to the print engine through the peripheral device interconnection port.

Claim 9 (Previously Presented): The method as claimed in claim 8, further comprising:

compressing the image data transferred from the first memory to the second memory;  
storing the compressed image data in the second memory;  
decompressing the compressed image data stored in the second memory;  
storing the decompressed image data in the second memory; and  
transferring the decompressed image data from the second memory to the print engine through the peripheral device interconnection port.

Claim 10 (Previously Presented): The method as claimed in claim 7, further comprising:

compressing the image data and storing the compressed image data in the first memory;  
decompressing the compressed image data transferred from the first memory after passing through the graphics port; and  
transferring the decompressed image data to the print engine through the peripheral device interconnection port.

Claim 11 (Previously Presented): The method as claimed in claim 8, further comprising:

compressing the image data and storing the compressed image data in the first memory;

transferring the compressed image data from the first memory to the second memory through the graphics port;  
decompressing the compressed image data stored in the second memory; and  
transferring the decompressed image to the print engine through the peripheral device interconnection port.

Claim 12 (Previously Presented): The method as claimed in claim 8, further comprising:

compressing the image data and storing the compressed image data in the first memory;  
transferring the compressed image data from the first memory to the second memory through the graphics port;  
decompressing the compressed image data stored in the second memory;  
storing the decompressed image data in the second memory; and  
transferring the decompressed image data from the second memory to the print engine through the peripheral device interconnection port.

Claim 13 (Currently Amended): A data processing apparatus comprising:  
a data processing unit processing data, the data processing unit including a graphics port and a peripheral device interconnection port;  
an engine connected to the peripheral device interconnection port;  
a central processing unit connected to the image data processing unit and controlling transfer of the data; and  
a first memory provided on a side of the graphics port with respect to the data processing unit, the first memory for storing the data,

wherein the central processing unit and the first memory are connected on a side of the graphics port with respect to the data processing unit; and

wherein the central processing unit stores the data in the first memory, and transfers the data stored in the first memory to the engine through the graphics port, the data processing unit, and the peripheral device interconnection port.

Claim 14 (New): An image forming apparatus comprising:

a first image data processing unit including a graphics port and a peripheral device interconnection port;

a second image data processing unit connected to said first image data processing unit through said graphics port;

a first memory for storing image data, the first memory located on a same side as said second image data processing unit with respect to said first image data processing unit; and

a print engine connected to said first image data processing unit on a side of said peripheral device interconnection port,

wherein said print engine receives the image stored in said first memory from said peripheral device interconnection port of said first image data processing unit without passing through said second image data processing unit so as to form a visible image using the received image data.

Claim 15 (New): The image forming apparatus as claimed in claim 14, wherein said first memory is located on a side of said graphics port of said first image data processing unit.